

THE INVENTION CLAIMED IS

1. A flexible interconnect for fuel cells comprising:
a plate,
a plurality of spaced members extending outwardly from at least one surface of said plate,
said members including a section defining contact pads.
2. The flexible interconnect of Claim 1, additionally including a plurality of spaced members extending outwardly from opposite sides of said plate.
3. The flexible interconnect of Claim 1, wherein said plate is composed of three layers of different materials.
4. The flexible interconnect of Claim 3, wherein said three layers of material may be selected from the group consisting of three layers of different material, three of the same material and three layers containing two layers of the same or different material.
5. The flexible interconnect of Claim 3, wherein at least one of said three layers includes an oxidation resistant material.
6. The flexible interconnect of Claim 3, wherein at least one of said three layers includes a high conductivity material.
7. The flexible interconnect of Claim 3, wherein a first of said three layers is composed of an oxidation resistant material, wherein a second of said three layers is composed of a high conductivity material, and a third of said three layers is composed of material located intermediate said first and second layers.
8. The flexible interconnect of Claim 1, wherein each of said plurality of spaced members has an end integral with said plate.

9. The flexible interconnect of Claim 1, wherein each of said plurality of spaced members is composed of a plurality of sections, at least a first section extending at an angle with respect to said plate, and a second being substantially parallel to said plate.
10. The flexible interconnect of Claim 9, wherein at least said first section has a portion integral with said plate.
11. The flexible interconnect of Claim 9, wherein said spaced members are constructed from the group consisting of fingers and bridges.
12. The flexible interconnect of Claim 1, wherein said plurality of spaced members each have a width greater than a length thereof.
13. The flexible interconnect of Claim 1, wherein said plurality of spaced members each have a length greater than a width thereof.
14. The flexible interconnect of Claim 1, wherein at least one of said plurality of spaced members has dimensions different from dimensions of at least another of said spaced members.
15. The flexible interconnect of Claim 1, wherein said plurality of spaced members are mounted intermediate a pair of single cells, wherein said plurality of flexible members extend from opposite sides of said plate so as to be in contact with an anode of one fuel cell and a cathode of an adjacent cell.
16. The flexible interconnect of Claim 1, wherein said plurality of spaced members are constructed to form one of a finger having a tapered section and a flat section or a bridge having a flat section and two tapered sections.
17. A fuel cell stack, comprising:
a plurality of single cells,
a plurality of interconnects, with at least an interconnect located intermediate adjacent single cells,

said plurality of interconnects having spaced protruding members which contact opposite surfaces of adjacent single cells.

18. The fuel cell stack of Claim 17, wherein said plurality of interconnects are of a configuration having at least one tapering section and one flat section.
19. The fuel cell stack of Claim 18, wherein said plurality of interconnects are of a bridge configuration.